

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/938,700

DATE: 09/18/2001
 TIME: 11:26:01

Input Set : A:\PC10761A.app
 Output Set: N:\CRF3\09182001\I938700.raw

3 <110> APPLICANT: Morsey, et al.
 5 <120> TITLE OF INVENTION: Anti-IgE Vaccines
 7 <130> FILE REFERENCE: PC10761A
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/938,700
 C--> 10 <141> CURRENT FILING DATE: 2001-08-24
 12 <160> NUMBER OF SEQ ID NOS: 28
 14 <170> SOFTWARE: PatentIn Ver. 2.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 30
 18 <212> TYPE: PRT
 19 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
 21 <400> SEQUENCE: 1
 22 Cys Ser Glu Ser Asp Pro Arg Gly Val Thr Ser Tyr Leu Ser Pro Pro
 23 1 5 10 15
 25 Ser Pro Leu Asp Leu Tyr Val His Lys Ala Pro Lys Ile Thr
 26 20 25 30
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 31
 31 <212> TYPE: PRT
 32 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
 34 <400> SEQUENCE: 2
 35 Cys Leu Val Val Asp Leu Ala Thr Met Glu Gly Met Asn Leu Thr Trp
 36 1 5 10 15
 38 Tyr Arg Glu Ser Lys Glu Pro Val Asn Pro Gly Pro Leu Asn Lys
 39 20 25 30
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 28
 44 <212> TYPE: PRT
 45 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
 47 <400> SEQUENCE: 3
 48 Lys Asp His Phe Asn Gly Thr Ile Thr Val Thr Ser Thr Leu Pro Val
 49 1 5 10 15
 51 Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr Tyr Tyr
 52 20 25
 55 <210> SEQ ID NO: 4
 56 <211> LENGTH: 25
 57 <212> TYPE: PRT
 58 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
 60 <400> SEQUENCE: 4
 61 Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile
 62 1 5 10 15
 64 Ala Lys Ala Pro Gly Lys Arg Ala Pro
 65 20 25
 68 <210> SEQ ID NO: 5
 69 <211> LENGTH: 28
 70 <212> TYPE: PRT
 71 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE

RAW SEQUENCE LISTING

DATE: 09/18/2001

PATENT APPLICATION: US/09/938,700

TIME: 11:26:01

Input Set : A:\PC10761A.app

Output Set: N:\CRF3\09182001\I938700.raw

```

73 <400> SEQUENCE: 5
74 Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val His Lys Ala Pro Lys
75 1 5 10 15
77 Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met Glu
78 20 25
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 34
83 <212> TYPE: PRT
84 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
86 <400> SEQUENCE: 6
87 Cys Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
88 1 5 10 15
90 Pro Gly Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val
91 20 25 30
93 Thr Ser
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 26
99 <212> TYPE: PRT
100 <213> ORGANISM: DOG CH3/CH4 PEPTIDE SEQUENCE
102 <400> SEQUENCE: 7
103 Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr Tyr Tyr
104 1 5 10 15
106 Cys Arg Val Thr His Pro His Leu Pro Lys
107 20 25
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 30
112 <212> TYPE: PRT
113 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
115 <400> SEQUENCE: 8
116 Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
117 1 5 10 15
119 Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr
120 20 25 30
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 33
125 <212> TYPE: PRT
126 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
128 <400> SEQUENCE: 9
129 Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr
130 1 5 10 15
132 Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
133 20 25 30
135 Glu
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 27
141 <212> TYPE: PRT
142 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
144 <400> SEQUENCE: 10
145 Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val Gly

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,700

DATE: 09/18/2001

TIME: 11:26:01

Input Set : A:\PC10761A.app

Output Set: N:\CRF3\09182001\I938700.raw

```

146      1          5          10          15
148 Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln
149      20          25
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 26
154 <212> TYPE: PRT
155 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
157 <400> SEQUENCE: 11
158 Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr
159      1          5          10          15
161 Thr Lys Thr Ser Gly Pro Arg Ala Ala Pro
162      20          25
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 27
167 <212> TYPE: PRT
168 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
170 <400> SEQUENCE: 12
171 Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile
172      1          5          10          15
174 Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys
175      20          25
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 34
180 <212> TYPE: PRT
181 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
183 <400> SEQUENCE: 13
184 Gly Thr Val Asn Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn
185      1          5          10          15
187 His Ser Thr Arg Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val
188      20          25          30
190 Thr Ser
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 28
196 <212> TYPE: PRT
197 <213> ORGANISM: HUMAN CH3/CH4 PEPTIDE SEQUENCE
199 <400> SEQUENCE: 14
200 Thr Leu Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln
201      1          5          10          15
203 Cys Arg Val Thr His Pro His Leu Pro Arg Cys His
204      20          25
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 84
209 <212> TYPE: DNA
210 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
212 <400> SEQUENCE: 15
213 tgctctgacc cgcgtggtgt tacctctttac ctgtctccgc cgtctccgct ggacctgtac 60
214 gttcacaaag ctccgaaaat cacc
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 93

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,700

DATE: 09/18/2001

TIME: 11:26:01

Input Set : A:\PC10761A.app

Output Set: N:\CRF3\09182001\I938700.raw

```

219 <212> TYPE: DNA
220 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
222 <400> SEQUENCE: 16
223 tgcctggtag tggacctggc caccatggaa ggcatagaacc tgacctggta ccgggagagc 60
224 aaagaaccgc tgaaccggg cccttgaac aag 93
227 <210> SEQ ID NO: 17
228 <211> LENGTH: 87
229 <212> TYPE: DNA
230 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
232 <400> SEQUENCE: 17
233 tgcaaggatc acttcaatgg gacgatcaca gtcacgtcta ccctgccagt gaacaccaat 60
234 gactggatcg agggcgagac ctactat 87
237 <210> SEQ ID NO: 18
238 <211> LENGTH: 75
239 <212> TYPE: DNA
240 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
242 <400> SEQUENCE: 18
243 tgcaagggtga cccaccgca cctgcccaag gacatcgtgc gctccattgc caaggccctc 60
244 ggtaagcgtg ccccc 75
247 <210> SEQ ID NO: 19
248 <211> LENGTH: 84
249 <212> TYPE: DNA
250 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
252 <400> SEQUENCE: 19
253 ctgtctccgc cgtctccgct ggacctgtac gttcacaaag ctcgaaaaat cacctgcctg 60
254 gtatgggacc tggccaccat ggaa 84
257 <210> SEQ ID NO: 20
258 <211> LENGTH: 102
259 <212> TYPE: DNA
260 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
262 <400> SEQUENCE: 20
263 tgcggcatga acctgacctg gtaccgggag agcaaagaac ccgtgaaccc gggccctttg 60
264 aacaagaagg atcacttcaa tgggacgatc acagtcacgt ct 102
267 <210> SEQ ID NO: 21
268 <211> LENGTH: 78
269 <212> TYPE: DNA
270 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
272 <400> SEQUENCE: 21
273 acctgccag tgaacaccaa tgactggatc gagggcgaga cctactattg cagggtgacc 60
274 caccgcacc tgcacaag 78
277 <210> SEQ ID NO: 22
278 <211> LENGTH: 90
279 <212> TYPE: DNA
280 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
282 <400> SEQUENCE: 22
283 tgcgcggaca gcaaccggag aggggtgagc gcctacctaa gccggccag ccggttcgac 60
284 ctgttcatcc gcaagtcgcc cagatcacc 90
287 <210> SEQ ID NO: 23
288 <211> LENGTH: 99

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/938,700

DATE: 09/18/2001
 TIME: 11:26:01

Input Set : A:\PC10761A.app
 Output Set: N:\CRF3\09182001\I938700.raw

```

289 <212> TYPE: DNA
290 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
292 <400> SEQUENCE: 23
293 tgtctgtgtgg tggacctggc acccagcaag gggacctga acctgacctg gtccccggcc 60
294 agtgggaagc ctgtgaacca ctccaccaga aaggaggag          99
297 <210> SEQ ID NO: 24
298 <211> LENGTH: 81
299 <212> TYPE: DNA
300 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
302 <400> SEQUENCE: 24
303 aagcagcgca atggcacgtt aaccgtcacg tccacctgc cgggtggcac ccgagactgg 60
304 atcgaggggg agacctacca g          81
307 <210> SEQ ID NO: 25
308 <211> LENGTH: 78
309 <212> TYPE: DNA
310 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
312 <400> SEQUENCE: 25
313 tgcaggggtga cccaccccca cctgccacag gccctcatgc ggtccacgac caagaccagc 60
314 ggcccgcgtg ctgccccg          78
317 <210> SEQ ID NO: 26
318 <211> LENGTH: 81
319 <212> TYPE: DNA
320 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
322 <400> SEQUENCE: 26
323 agccggccca gcccggttga cctgttcac cgcaagtgc ccacgatcac ctgtctggtg 60
324 gtggacctgg caccagcaa g          81
327 <210> SEQ ID NO: 27
328 <211> LENGTH: 102
329 <212> TYPE: DNA
330 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
332 <400> SEQUENCE: 27
333 gggacctga acctgacctg gtccccggcc agtgggaagc ctgtgaacca ctccaccaga 60
334 aaggaggaga agcagcgcaa tggcacgtta accgtcacgt cc          102
337 <210> SEQ ID NO: 28
338 <211> LENGTH: 78
339 <212> TYPE: DNA
340 <213> ORGANISM: DOG CH3/CH4 NUCLEOTIDE SEQUENCE
342 <400> SEQUENCE: 28
343 accctgccgg tgggcaccgg agactggatc gagggggaga cctaccagtg cagggtgacc 60
344 cacccccacc tgcccag          78

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/938,700

DATE: 09/18/2001

TIME: 11:26:02

Input Set : A:\PC10761A.app

Output Set: N:\CRF3\09182001\I938700.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date